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# Printed by EAST

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**UserID:** LDouyon

**Computer:** WS06325

**Date:** 09/18/2002

**Time:** 09:11

09/380, 739

L Number	Hits	Search Text	DB	Time stamp
1	8	rettenmaier-josef-otto.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:11
2	3	rettenmaier-josef.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:11
3	83	kruse-hans-friedrich.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:12
4	29	kruse-hans.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:12
5	83	kruse-hans-f\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:14
6	0	holl-martin-\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:14
7	0	holl-martin.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:15
8	1	schlosser-harald.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:15
9	0	ungerer-armin.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:15
10	723	(compacted or compact\$4) near6 (cellulos\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:16
12	30	(compacted or compact\$4) near6 (cellulos\$2) same (size or diameter or mesh or seive or sieve or densit\$3) and (tablet\$4 or compact\$4 or compressed or pellet or bar or briquet\$5) same (detergent or deterative or tenside or surfactant or surface adj active or wash\$3 or clean\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:55
11	189	(compacted or compact\$4) near6 (cellulos\$2) same (size or diameter or mesh or seive or sieve or densit\$3) and (tablet\$4 or compact\$4 or compressed or pellet or bar or briquet\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:40
13	46	(compacted or compact\$4) near10 (cellulos\$2) same (size or diameter or mesh or seive or sieve or densit\$3) and (tablet\$4 or compact\$4 or compressed or pellet or bar or briquet\$5) same (detergent or deterative or tenside or surfactant or surface adj active or wash\$3 or clean\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:57
14	16	((compacted or compact\$4) near10 (cellulos\$2) same (size or diameter or mesh or seive or sieve or densit\$3) and (tablet\$4 or compact\$4 or compressed or pellet or bar or briquet\$5) same (detergent or deterative or tenside or surfactant or surface adj active or wash\$3 or clean\$3)) not ((compacted or compact\$4) near6 (cellulos\$2) same (size or diameter or mesh or seive or sieve or densit\$3) and (tablet\$4 or compact\$4 or compressed or pellet or bar or briquet\$5) same (detergent or deterative or tenside or surfactant or surface adj active or wash\$3 or clean\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/09/18 09:57

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020070161 A1	20020613	6	ANCILLARY FILTERING AGENT	210/503
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6244528 B1	20010612	5	Method and apparatus for producing fine powder from a legume or grain	241/8
3	<input type="checkbox"/>	<input type="checkbox"/>	WO 9939806 A1	19990812	26	FILTER AID	
4	<input type="checkbox"/>	<input type="checkbox"/>	DE 19804882 A1	19990812	8	TITLE DATA NOT AVAILABLE	
5	<input type="checkbox"/>	<input type="checkbox"/>	WO 9840462 A1	19980917	24	PRESSED PIECE WHICH DISINTEGRATES IN LIQUIDS	
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9840149 A1	19980917		ANCILLARY FILTERING AGENT	
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9718897 A2	19970529		PROCESS FOR PRODUCING AN ORGANIC THICKENING AND SUSPENSION AGENT	
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9718702 A2	19970529		ANIMAL LITTER, METHOD FOR ITS MANUFACTURE AND USE OF A THICKENER THEREFOR	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	210/502.1; 210/505		RETTENMAIER, JOSEF OTTO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	241/23		Wallis, Loren Paul et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			RETTENMAIER, JOSEF OTTO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			RETTENMAIER, JOSEF OTTO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5			RETTENMAIER, JOSEF OTTO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6			RETTENMAIER, JOSEF OTTO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7			RETTENMAIER, JOSEF OTTO et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			RETTENMAIER, JOSEF OTTO et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	<b>Image Doc. Displayed</b>	<b>PT</b>
1	US 20020070161	<input type="checkbox"/>
2	US 6244528	<input type="checkbox"/>
3	WO 9939806 A1	<input type="checkbox"/>
4	DE 19804882 A1	<input type="checkbox"/>
5	WO 9840462 A1	<input type="checkbox"/>
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**UserID:** LDouyon

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**Date:** 09/18/2002

**Time:** 09:21

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020061335 A1	20020523	11	Powdered/microfibrillated cellulose	424/488
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020006890 A1	20020117	44	Multiphase laundry detergent and cleaning product shaped bodies having noncompressed parts	510/446
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020004472 A1	20020110		Compression process for multiphase tablets	510/290
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010025020 A1	20010927		Compression process for multiphase tablets	510/446
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6420626 B1	20020716		Unitary fluid acquisition, storage, and wicking material	604/378
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6340664 B1	20020122		Laundry detergent or cleaning product tablets with partial coating	510/441
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6303560 B1	20011016		Compacted disintegrant granulate for compression-molded articles, its production and its use	510/446
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5977023 A	19991102		Sustained release, solid pesticidal compositions comprising water insoluble alginates	504/358
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5807529 A	19980915		Process for the production of silicate-based builder granules with increased apparent density	423/332
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5038832 A	19910813		Cored high density shirred casings	138/109
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4798744 A	19890117		Fixation of polymers retaining liquids in a porous structure	427/389.9
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4688298 A	19870825		Cored high density shirred casings	452/21

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	424/401; 504/367; 536/56		Kumar, Vijay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			Sunder, Matthias et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			Holderbaum, Thomas et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4			Holderbaum, Thomas et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	428/131; 428/137; 604/365; 604/367; 604/383		Erspamer, John P. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	510/224; 510/294; 510/298; 510/446; 510/475; 510/476		Gassenmeier, Thomas et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	510/113; 510/224; 510/294; 510/298; 510/340; 510/473		Hartan, Hans-Georg et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	424/405		Inoue, Masao et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	23/313AS; 264/118; 423/334; 510/532		Kruse, Hans-Friedrich et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	138/118.1; 138/121; 426/135; 428/34.8; 452/38; 452/45		Mahoney, George H. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	427/391; 427/392		Goldstein, Guy et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	452/27; 452/29		Mahoney, George H. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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	U	1	Document ID	Issue Date	Pages	Title	Current OR
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4447421 A	19840508		Process for the preparation of medicated animal feed supplement	514/152
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4391973 A	19830705		Readily hydratable cellulose and preparation thereof	536/56
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4376763 A	19830315		Functional agglomerated speckles, method for manufacture thereof and dentifrices containing such speckles	424/49
16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4376762 A	19830315		Functional agglomerated speckles, dentifrices containing such speckles and methods for manufacturing such speckles and dentifrices containing them	424/49
17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3965904 A	19760629		Disposable diaper	604/366
18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3938522 A	19760217		Disposable diaper	604/365
19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3905830 A	19750916		Zinc fibers and needles and process for preparing the same	205/311
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3888160 A	19750610		Tobacco smoke filter	493/42
21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3853625 A	19741210		ZINC FIBERS AND NEEDLES AND GALVANIC CELL ANODES MADE THEREFROM	429/229
22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3844838 A	19741029		ALKALINE CELLS WITH ANODES MADE FROM ZINC FIBERS AND NEEDLES	429/206
23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3791265 A	19740212		APPARATUS FOR MAKING TOBACCO SMOKE FILTER	493/42
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3683916 A	19720815		DISPOSABLE DIAPER	604/365

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
13	264/117; 426/807; 514/154; 514/157; 514/199; 514/30; 514/460		Klothen, Irving	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	106/163.01; 162/157.6		Cruz, Jr., Mamerto M.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	424/401; 424/499		Barth, Jordan et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	424/401; 424/499		Hauschild, John P. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	604/370; 604/371; 604/374; 604/375; 604/377; 604/380		Mesek, Frederick K. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	604/366; 604/372; 604/374; 604/377; 604/380		Repke, Virginia L.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	205/111		Louzos, Demetrios V.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	493/47		Westcott, David Thomas et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	75/371; 75/952		Louzos, Demetrios V.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	429/207; 429/229		Louzos, Demetrois V.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	131/339; 493/47		Westcott, David Thomas et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	604/370; 604/375; 604/380; 604/389		Mesek, Frederick K. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	U	1	Document ID	Issue Date	Pages	Title	Current OR
25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3634183 A	19720111		COMPACTED REGENERATED CELLULOSE SPONGES AND METHOD OF PREPARING THE SAME	428/215
26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 3612055 A	19711012		DISPOSABLE DIAPER OR THE LIKE AND METHOD OF MANUFACTURE	604/365
27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JP 02168924 A	19900629		CLEANING GOODS	
28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DE 4106623 A1	19920903		Cellulose acetate microspheres with surface hydroxyl gps. - by dispersing soln. of cellulose acetate in volatile solvent, in aq. medium, then evaporating and hydrolysing with aq. sodium hydroxide soln	
29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CA 2300630 A	20000821		Detergent tablets useful for laundry and dishwashing contain cellulose-based disintegrator spatially separated from hydrophobizing substances in demarcated region of the tablets	
30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JP 02168924 A	19900629		Solid surface cleaner - obtd. by compressing and compacting low density cellulose sponge contg. abrasives, etc.	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
25	156/306.3; 206/210; 206/303; 206/361; 206/445; 206/823; 428/316.6; 428/508		Viola, Leonard J. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	604/366; 604/374; 604/375; 604/377; 604/378; 604/379; 604/389		Mesek, Frederick K. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	15/104.001		KANEKO, YUKIHIRO et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28			LOTH, FRITZ DR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29			KRUSE, H et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**UserID:** LDouyon  
**Computer:** WS06325  
**Date:** 09/18/2002  
**Time:** 09:40

## Document Listing

Document	Image pages	Text pages	Error pages
JP 02168924 A	0	2	0
Total	0	2	0



DERWENT-ACC-NO: 1990-242684  
DERWENT-WEEK: 199032  
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TITLE: Solid surface cleaner - obt'd. by compressing and compacting low density cellulose sponge contg. abrasives, etc.

PATENT-ASSIGNEE: LION CORP[LIOY]

PRIORITY-DATA: 1988JP-0325150 (December 23, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 02168924 A	June 29, 1990	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP02168924A	N/A	1988JP-0325150	December 23, 1988

INT-CL (IPC): A47L013/17; C08J009/42 ; C08L001/00

ABSTRACTED-PUB-NO: JP02168924A

BASIC-ABSTRACT: The cleaner is mfd. by compressing and compacting low density cellulosespo nge impregnated with abrasive and a surface active agent.

USE/ADVANTAGE - A cleaner which can remove dirt and stain stuck to the surface of a solid only by impregnating water into it and rubbing dirt and/or stain with it. The cleaner can quickly increase its volume after it absorbs water, and return its original compact shape within approx. 1 second.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

SOLID SURFACE CLEAN OBTAIN COMPRESS COMPACT LOW DENSITY  
CELLULOSE SPONGE  
CONTAIN ABRASION

DERWENT-CLASS: A84 P28

CPI-CODES: A03-A05A; A08-S01; A12-A03; A12-S04; A12-W11D;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 1982 2369 2539 3250 2646 2687 2271

Multipunch Codes: 014 04- 252 253 318 370 491 493 52& 532 533 535 575 581 59-  
609

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-104950

Non-CPI Secondary Accession Numbers: N1990-188306

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**UserID:** LDouyon

**Computer:** WS06325

**Date:** 09/18/2002

**Time:** 09:58

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020058602 A1	20020516	17	Laundry detergents and cleaning products based on alkyl and/or alkenyl oligoglycosides and fatty alcohols	510/421
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020032139 A1	20020314	10	Particulate acetonitrile derivatives as bleach activators in solid detergents	510/218
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6429002 B1	20020806		Reticulated cellulose producing acetobacter strains	435/252.1
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6407045 B1	20020618		Particulate acetonitrile derivatives as bleach activators in solid detergents	510/220
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6329192 B1	20011211		Reticulated cellulose and methods of microorganisms for the production thereof	435/252.1
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6092302 A	20000725		Absorbent fibrous granules	34/303
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5871978 A	19990216		Method of producing reticulated cellulose having type II crystalline cellulose	435/101
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5830576 A	19981103		Solid dosage forms	424/408

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	510/470		Eskuchen, Rainer et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	510/302; 510/308; 510/511		Nitsch, Christian et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	435/101; 435/243; 435/823; 536/56		Ben-Bassat, Arie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	510/224; 510/226; 510/232; 510/276; 510/286; 510/298; 510/302; 510/310; 510/311; 510/312; 510/314; 510/349; 510/367; 510/372; 510/376; 510/511		Nitsch, Christian et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	435/101; 435/170; 435/823; 536/56		Ben-Bassat, Arie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	34/329; 502/402; 502/418		Berrigan, Michael R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	435/170; 435/252.1; 435/823; 536/56		Ben-Bassat, Arie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	424/417; 424/421; 424/452; 424/465; 424/489; 504/100; 504/101		Mehra, Dev K. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Image Doc. Displayed	PT
1	US 20020058602	<input type="checkbox"/>
2	US 20020032139	<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>
6		<input type="checkbox"/>
7		<input type="checkbox"/>
8		<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5821109 A	19981013		Reticulated cellulose and methods and microorganisms for the production thereof	435/252.1
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5763083 A	19980609		Oil absorbent fibrous granules	428/402
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5536373 A	19960716		Recycle processing of baled waste material	162/261
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5496439 A	19960305		Recycle processing of baled waste material	162/4
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5144021 A	19920901		Reticulated cellulose and methods and microorganisms for the production thereof	536/56
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5079162 A	19920107		Reticulated cellulose and methods and microorganisms for the production thereof	435/252.1
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4863565 A	19890905		Sheeted products formed from reticulated microbial cellulose	162/150
16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4417931 A	19831129		Wet compaction of low density air laid webs after binder application	156/62.2

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
9	435/101; 435/170; 435/823; 536/56		Ben-Bassat, Arie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	428/373; 428/374; 428/401		Berrigan, Michael R.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	162/243; 241/77; 241/79		Carlson, Willard E. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	162/53; 162/55; 162/56		Carlson, Willard E. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	435/252.1; 435/823		Arie, Ben-Bassat et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	435/101; 435/823; 536/56		Ben-Bassat, Arie et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	162/157.6; 428/369; 428/393; 428/913; 435/101; 435/823; 514/781; 604/289; 604/304; 604/308; 604/374		Johnson, Donald C. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	156/209; 264/119; 264/121; 264/128; 442/381		Li, Shiu Kang L.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



	Image Doc. Displayed	PT
9		<input type="checkbox"/>
10		<input type="checkbox"/>
11		<input type="checkbox"/>
12		<input type="checkbox"/>
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14		<input type="checkbox"/>
15		<input type="checkbox"/>
16		<input type="checkbox"/>

09/380,739

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(FILE 'HOME' ENTERED AT 10:20:29 ON 18 SEP 2002)

FILE 'CA' ENTERED AT 10:20:52 ON 18 SEP 2002

L1 6 S COMPACT?(8A)CELLULOS?(P) (DENSIT? OR SIZE OR DIAMETER OR  
MESH  
L2 1 S COMPACT?(8A)CELLULOS?(P) (SIZE OR DIAMETER OR MESH OR SIEVE  
OR  
L3 1 S COMPACT?(8A)CELLULOS?(P) (SIZE OR DIAMETER OR MESH OR SIEVE  
OR  
L4 16 S CELLULOS?(P) (SIZE OR DIAMETER OR MESH OR SIEVE OR  
SEIVE) (5A) (

FILE 'USPATFULL' ENTERED AT 10:45:47 ON 18 SEP 2002

L5 89 S L1  
L6 7 S L2  
L7 1 S L3  
L8 251 S L4  
L9 16 S CELLULOS?(P) (SIZE OR DIAMETER OR MESH OR SIEVE OR  
SEIVE) (5A) (

=>

=> s compact?(8a)cellulos?(p) (densit? or size or diameter or mesh or sieve or seive or mm or cm or micron# or centimeter# or millimeter# or inch##) and (laundry or cloth? or fabric# or textile# or washing(w) (machine or apparatus) or launder?)

113518 COMPACT?

306207 CELLULOS?

277074 DENSIT?

727960 SIZE

9738 DIAMETER

70791 MESH

29069 SIEVE

103 SEIVE

689392 MM

568158 CM

13940 MICRON#

2944 CENTIMETER#

8920 MILLIMETER#

5048 INCH##

94 COMPACT? (8A) CELLULOS? (P) (DENSIT? OR SIZE OR DIAMETER OR MESH

OR

SIEVE OR SEIVE OR MM OR CM OR MICRON# OR CENTIMETER# OR

MILLIMET

ER# OR INCH##)

9975 LAUNDRY

38919 CLOTH?

113653 FABRIC#

105819 TEXTILE#

129820 WASHING

67088 MACHINE

372309 APPARATUS

1845 WASHING(W) (MACHINE OR APPARATUS)

8626 LAUNDER?

L1

6 COMPACT? (8A) CELLULOS? (P) (DENSIT? OR SIZE OR DIAMETER OR MESH

OR

SIEVE OR SEIVE OR MM OR CM OR MICRON# OR CENTIMETER# OR

MILLIMET

ER# OR INCH##) AND (LAUNDRY OR CLOTH? OR FABRIC# OR TEXTILE#

OR

WASHING(W) (MACHINE OR APPARATUS) OR LAUNDER?)

=> d 1-6 l1 ti

L1 ANSWER 1 OF 6 CA COPYRIGHT 2002 ACS

TI **Laundry** detergent tablet from particulate compositions containing water-soluble water-swellaable polymer

L1 ANSWER 2 OF 6 CA COPYRIGHT 2002 ACS

TI Manufacturing process of **laundry** detergent tablet from particulate compositions containing sodium tripolyphosphate

L1 ANSWER 3 OF 6 CA COPYRIGHT 2002 ACS

TI Use of compressed carboxymethylcellulose (CMC) in detergent tablets

L1 ANSWER 4 OF 6 CA COPYRIGHT 2002 ACS

TI Washing and cleaning agent molded article with finely particulate solubilizers

L1 ANSWER 5 OF 6 CA COPYRIGHT 2002 ACS

TI Transport Properties of Rolled, Continuous Stationary Phase Columns

L1 ANSWER 6 OF 6 CA COPYRIGHT 2002 ACS

TI Porous metal products from salt-impregnated cellulose fibers

=>

=> d 3, 4 11

L1 ANSWER 3 OF 6 CA COPYRIGHT 2002 ACS  
AN 134:149325 CA  
TI Use of compressed carboxymethylcellulose (CMC) in detergent tablets  
AU Anon.  
CS UK  
SO Research Disclosure (2000), 438(Oct.), P1716 (No. 438006)  
CODEN: RSDSBB; ISSN: 0374-4353  
PB Kenneth Mason Publications Ltd.  
DT Journal; Patent  
LA German  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI RD 438006 20001010  
PRAI RD 2000-438006 20001010

L1 ANSWER 4 OF 6 CA COPYRIGHT 2002 ACS  
AN 132:336141 CA  
TI Washing and cleaning agent molded article with finely particulate  
solubilizers  
IN Lietzmann, Andreas; Schmiedel, Peter; Semrau, Markus  
PA Henkel K.-G.a.A., Germany  
SO Ger. Offen., 22 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI DE 19851442 A1 20000511 DE 1998-19851442 19981109

=>

LI ANSWER 3 OF 6 CA COPYRIGHT 2002 ACS  
 AN 134:149325 CA  
 TI Use of compressed carboxymethylcellulose (CMC) in detergent tablets  
 AU Anon.  
 CS UK  
 SO Research Disclosure (2000), 438(Oct.), P1716 (No. 438006)  
 CODEN: RSDSBB; ISSN: 0374-4353  
 PB Kenneth Mason Publications Ltd.  
 DT Journal; Patent  
 LA German  
 CC 46-6 (Surface Active Agents and Detergents)  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 -----  
 PI RD 438006 20001010  
 PRAI RD 2000-438006 20001010  
 AB Fine-powd. carboxy Me cellulose is used in **laundry** detergents as  
 graying inhibitor. However, CMC retards the disintegration of detergent  
 tablets due to its fast swelling. The swelling of CMC is slowed down by  
 compaction. CMC can be compacted in pure form or mixed with bleaching  
 agents or disintegration auxiliaries. The optimum grain size  
 distribution  
 of the compacted materials was in the range of 400-1200 .mu.m and the  
 powder d. was adjusted to values .gtoreq. 400 g/L.  
 ST **CM cellulose compacted laundry**  
 detergent tablet disintegration  
 IT Swelling, physical  
 (behavior of compressed CM-cellulose in **laundry** detergent  
 tablets)  
 IT Detergents  
 (**laundry**, tablets; behavior of compressed CM-cellulose in  
**laundry** detergent tablets)  
 IT 9004-32-4, Carboxy methyl cellulose  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (behavior of compressed CM-cellulose in **laundry** detergent  
 tablets)

=>

L1 ANSWER 4 OF 6 CA COPYRIGHT 2002 ACS

AN 132:336141 CA

TI Washing and cleaning agent molded article with finely particulate solubilizers

IN Lietzmann, Andreas; Schmiedel, Peter; Semrau, Markus

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 22 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C11D017-00

ICS A61K007-48; A61K007-50

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 19851442	A1	20000511	DE 1998-19851442	19981109
AB	<p><b>Laundry</b> and dishwashing detergent tablets with adequate hardness, which also show sufficient disintegration and dissoln. rates that their contents can be flushed from the dosage chamber into the drum of household washing machines, contain 0.5-20 wt.% solubilizers having a water soly. of &gt;200 g/L at 20.degree.; .gtoreq.30 wt.% of the solubilizer particles have a particle <b>size</b> &lt;200 .mu.m; preferably, they addnl. contain 0.5-10 wt.% granular or <b>compacted cellulose</b>-based disintegrating agent. The tablets also contain conventional surfactants, builders, bleaches, enzymes, brighteners, antifoam agents, etc. Thus, surfactant granules contg. (C9-13-alkyl)benzenesulfonates 19.4, ethoxylated C12-18 fatty alcs. 4.8, C12-18 fatty alc. sulfates 5.2, C12-16-alkyl 1,4-glycosides 1.0, soap 1.6, brightener 0.3, Na2CO3 17.0, Na silicate 5.6, acrylic acid/maleic acid copolymer 5.6, Zeolite A 28.5, Na hydroxyethane-1,1-diphosphonate 0.8, salts, and H2O to 100 wt.% were dried at 60.degree. and sieved. A premix was prepd. contg. these granules 60.0, NH4Cl (mean particle <b>size</b> .apprx.0.2 mm) 2.0, NaBO3.H2O 17.4, EDTA 7.3, antifoam agent 3.5, polyacrylate 1.0, enzymes 1.7, perfume 0.5, Zeolite A 1.0, and <b>compacted cellulose</b> (particle <b>size</b> 90 wt.% &gt;400 .mu.m) 5.5 wt.%; the premix was then compressed into 37.5-g tablets which had a hardness of 39 N and a disintegration time of 10 s.</p>				
ST	detergent tablet disintegration time solubilizer; hardness detergent tablet solubilizer				
IT	Detergents (dishwashing; washing and cleaning agent molded article with finely particulate solubilizers)				
IT	Detergents ( <b>laundry</b> ; washing and cleaning agent molded article with finely particulate solubilizers)				
IT	Detergents Dissolution rate Hardness (mechanical) Particle size Particle size distribution Solubilizers Tablets (washing and cleaning agent molded article with finely particulate solubilizers)				
IT	9004-34-6, Cellulose, uses				

RL: MOA (Modifier or additive use); USES (Uses)  
(disintegrating agent; washing and cleaning agent molded article with  
finely particulate solubilizers)

IT 497-19-8, Sodium carbonate, uses 12125-02-9, Ammonium chloride, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(solubilizer; washing and cleaning agent molded article with finely  
particulate solubilizers)

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L2 1 COMPACT?(8A)CELLULOS?(P) (SIZE OR DIAMETER OR MESH OR SIEVE OR  
OR SEIVE) (5A) (MM OR CM OR MICRON# OR CENTIMETER# OR MILLIMETER#  
INCH##) AND (LAUNDRY OR CLOTH? OR FABRIC# OR TEXTILE# OR  
WASHING (W) (MACHINE OR APPARATUS) OR LAUNDER?)

=> d 1 12 ti

L2 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS  
TI Washing and cleaning agent molded article with finely particulate  
solubilizers

=> d 1 12

L2 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS  
AN 132:336141 CA  
TI Washing and cleaning agent molded article with finely particulate  
solubilizers  
IN Lietzmann, Andreas; Schmiedel, Peter; Semrau, Markus  
PA Henkel K.-G.a.A., Germany  
SO Ger. Offen., 22 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 19851442	A1	20000511	DE 1998-19851442	19981109

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L3 1 COMPACT?(8A)CELLULOS?(P)(SIZE OR DIAMETER OR MESH OR SIEVE OR  
OR SEIVE)(5A)(MM OR CM OR MICRON# OR CENTIMETER# OR MILLIMETER#  
INCH##) AND (TABLET? OR PELLET? OR BAR OR BRIQUET? OR  
COMPRESS? OR COMPACT? OR SOLID(A)BLOCK)(P)(DETERGENT# OR DETERSIVE# OR  
TENSIDE# OR WASHING OR CLEANING)

=> d 1 13 ti

L3 ANSWER 1 OF 1 CA COPYRIGHT 2002 ACS  
TI Washing and cleaning agent molded article with finely particulate  
solubilizers

=>

L4 16 CELLULOS?(P) (SIZE OR DIAMETER OR MESH OR SIEVE OR  
SEIVE) (5A) (MM  
OR CM OR MICRON# OR CENTIMETER# OR MILLIMETER# OR INCH##) AND  
(TABLET? OR PELLET? OR BAR OR BRIQUET? OR COMPRESS? OR  
COMPACT?  
OR SOLID(A) BLOCK) (P) (DETERGENT# OR DETERSIVE# OR TENSIDE# OR  
WASHING OR CLEANING)

=> d 1-16 14 ti

L4 ANSWER 1 OF 16 CA COPYRIGHT 2002 ACS  
TI Preparation and use of products based on cellulose and insoluble acrylic  
polymers as disintegrating agents

L4 ANSWER 2 OF 16 CA COPYRIGHT 2002 ACS  
TI Enzyme **tablets** for **cleaning** improvement

L4 ANSWER 3 OF 16 CA COPYRIGHT 2002 ACS  
TI Manufacture of disintegration agents for **detergent  
tablets** with higher disintegration rates

L4 ANSWER 4 OF 16 CA COPYRIGHT 2002 ACS  
TI Disintegrating granulates for **detergent tablets**

L4 ANSWER 5 OF 16 CA COPYRIGHT 2002 ACS  
TI **Detergent tablets** with improved disintegration  
properties, and their manufacture

L4 ANSWER 6 OF 16 CA COPYRIGHT 2002 ACS  
TI Granular disintegration promoters for molded detergents

L4 ANSWER 7 OF 16 CA COPYRIGHT 2002 ACS  
TI Granular disintegration promoters for molded detergents

L4 ANSWER 8 OF 16 CA COPYRIGHT 2002 ACS  
TI Washing and cleaning agent molded article with finely particulate  
solubilizers

L4 ANSWER 9 OF 16 CA COPYRIGHT 2002 ACS  
TI Household **detergent** or **cleaning** agent **tablets**

L4 ANSWER 10 OF 16 CA COPYRIGHT 2002 ACS  
TI Water-adsorbing materials for treatment of fecal and industrial sludge

L4 ANSWER 11 OF 16 CA COPYRIGHT 2002 ACS  
TI Preparation of particulate free-flowing detergents

L4 ANSWER 12 OF 16 CA COPYRIGHT 2002 ACS  
TI Apparatus for producing cleaning agents with low volume density

L4 ANSWER 13 OF 16 CA COPYRIGHT 2002 ACS  
TI Detergent bars

L4 ANSWER 14 OF 16 CA COPYRIGHT 2002 ACS  
TI **Detergent tablets** containing auxiliaries

L4 ANSWER 15 OF 16 CA COPYRIGHT 2002 ACS  
TI Cotton wool and its substitutes for the manufacture of nitrocellulose

L4 ANSWER 16 OF 16 CA COPYRIGHT 2002 ACS  
TI Cotton wool and its substitutes for the manufacture of nitrocellulose

=>

> d 1-8 14 hit

L4 ANSWER 1 OF 16 CA COPYRIGHT 2002 ACS

AB The title products, useful as disintegrating aids for tech. and pharmaceutical **tablets**, are prepd. from powd. and/or microcryst. **cellulose** and, as disintegrating agents, insol. acrylic acid and acrylamide homopolymers or their copolymers. Dispersing 1000.0 kg powd. **cellulose** (moisture content .apprx.20%) in 2500.0 kg H2O, adding 160.0 polyacrylic product (e.g., Hysorb), extruding, and drying at 60.degree. gave a compn. with residual H2O content 5-8% and av. particle **size** 0.25-0.8 mm. Use of the products as disintegrating agents for aspirin **tablets** and **detergent tablets** is exemplified.

ST cellulose disintegrating agent **tablet**; pharmaceutical **tablet** disintegrating agent; **detergent tablet** disintegrating agent; cosmetic **tablet** disintegrating agent; acrylic acid polymer disintegrating agent; acrylamide polymer disintegrating agent

IT **Detergents**

(prepn. and use of products based on cellulose and insol. acrylic polymers as disintegrating agents for **detergent tablets**)

L4 ANSWER 2 OF 16 CA COPYRIGHT 2002 ACS

TI Enzyme **tablets** for **cleaning** improvement

AB The present invention concerns an enzyme contg. cleaning particle having **size** >10.5 mm in its longest dimension, wherein the non-enzyme components of the particle have a detergency of less than 4. Thus, a detergent powder was prepd. by spraying a compn. contg. Arbocel BFC 200 (**cellulose**) 4.2, kaolin 2.1, Avebe W 80 (carbohydrate binder) 0.7, sodium sulfate 24.7 kg with a compn. contg. Carezyme 6.0, Avebe W 80 0.7, and sucrose 1.4 kg, and drying.

ST **detergent** enzyme **tablet** manuf; particle size enzyme **detergent**

IT Amides, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(coco, N-(hydroxyethyl); enzyme **tablets** for **cleaning** improvement)

IT **Detergents**

Particle size

(enzyme **tablets** for **cleaning** improvement)

IT Carbohydrates, uses

Kaolin, uses

Polyoxyalkylenes, uses

RL: MOA (Modifier or additive use); USES (Uses)

(enzyme **tablets** for **cleaning** improvement)

IT Enzymes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(enzyme **tablets** for **cleaning** improvement)

IT 9004-34-6, Arbocel BFC 200, uses

RL: MOA (Modifier or additive use); USES (Uses)

(Arbocel BFC 200, Avicel 101; enzyme **tablets** for **cleaning** improvement)

IT 9003-39-8, plasdone XL

RL: MOA (Modifier or additive use); USES (Uses)

(PVP K 30; enzyme **tablets** for **cleaning** improvement)

IT 77-92-9, Citric acid, uses 9063-38-1, Explotab

RL: MOA (Modifier or additive use); USES (Uses)

(bursting agent; enzyme **tablets** for **cleaning** improvement)

IT 57-50-1, Sucrose, uses 63-42-3, Lactose 7647-14-5, Sodium chloride, uses 7757-82-6, Sodium sulfate, uses 9004-65-3, HPMC 25086-89-9, Kollidon VA 64 25322-68-3, PEG 4000 66746-16-5, Lutensol 212693-81-7, Prosolv SMCC 90 365452-42-2, Avebe W 80  
RL: MOA (Modifier or additive use); USES (Uses)  
(enzyme **tablets** for **cleaning** improvement)

IT 9000-92-4, Amylase 9001-62-1, Lipase 9001-92-7, Protease 9003-99-0, Peroxidase 9012-54-8, Carezyme 9014-01-1, Savinase 9055-15-6, Oxidoreductase 51377-41-4, Cutinase 80498-15-3, Laccase  
RL: TEM (Technical or engineered material use); USES (Uses)  
(enzyme **tablets** for **cleaning** improvement)

IT 557-04-0, Magnesium stearate  
RL: MOA (Modifier or additive use); USES (Uses)  
(glazing agents; enzyme **tablets** for **cleaning** improvement)

IT 9004-53-9, Dextrin  
RL: MOA (Modifier or additive use); USES (Uses)  
(yellow; enzyme **tablets** for **cleaning** improvement)

L4 ANSWER 3 OF 16 CA COPYRIGHT 2002 ACS

TI Manufacture of disintegration agents for **detergent tablets** with higher disintegration rates

AB The title agents are manufd. by compressing swellable substances [poly(vinylpyrrolidone) (PVP), microcryst. **cellulose**] at 50-100,000 bar and comminuting the resulting moldings to obtain material with the preponderant portion having particle **size** <0.1 mm. The tablets contg. such disintegration agents have higher disintegration rates than the previous art tablets contg. the same amts. of disintegration agents, or have the same disintegration rates at lower amts. of disintegration agents. For example, a disintegration agent A was

prepd. by compressing Collidon CL (fine dispersion of crosslinked PVP) at 1700 bar, comminuting the molding and sepg. the powder fraction with particle **size** 0.4-1 mm. A tablet comprising Na dodecylbenzenesulfonate, coco fatty alc. sulfate Na salts, ethoxylated (7 EO) coco fatty alcs., palm oil fatty acids Na salts, Na<sub>2</sub>SO<sub>4</sub>, Na silicate, Na percarbonate, disintegration agent A, zeolite A, (Ac<sub>2</sub>NCH<sub>2</sub>)<sub>2</sub>, paraffin/silicone defoamer and Na<sub>2</sub>CO<sub>3</sub> had disintegration time 6 s, vs. 23 s for a similar tablet contg. customary crosslinked PVP instead of disintegration agent A .

ST **detergent tablet** disintegration agent precompressed  
comminuted polyvinylpyrrolidone; cellulose microcryst precompressed  
comminuted disintegration agent **detergent tablet**

IT **Detergents**  
(**tablets**; manuf. of disintegration agents for **detergent tablets** with higher disintegration rates)

IT 76633-00-6, Collidon CL  
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(**compressed** and comminuted; manuf. of disintegration agents for **detergent tablets** with higher disintegration rates)

IT 9004-34-6, Cellulose, uses  
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(microcryst., **compressed** and comminuted; manuf. of

disintegration agents for **detergent tablets** with higher disintegration rates)

- L4 ANSWER 4 OF 16 CA COPYRIGHT 2002 ACS
- TI Disintegrating granulates for **detergent tablets**
- AB The title tablets, which disintegrate in cold water without forming a gel phase, contain granules prep'd. by granulating and compacting nonionic surfactants (mixed ether alcs.) in the presence of disintegrating agents. A tablet prep'd. from a soap-synthetic surfactant compn. contg. 14.0% granulate (particle **size** 1.2-1.6 mm) prep'd. from 600 g **cellulose** and 400 g mixed ether alc. (ring-opening product from 1,2-epoxydecane and coco fatty alc. alkoxyated with 3:6 oxirane-methyloxirane) had dissoln. time 40 s; vs. >200 in the absence of the granulate.
- ST disintegrating granulate **detergent tablet**; cellulose disintegrating agent **detergent tablet**; epoxydecane adduct granulate **detergent**; fatty alc alkoxyated granulate **detergent**; oxirane adduct granulate **detergent**; methyloxirane adduct granulate **detergent**
- IT Alcohols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coco, alkoxyated, reaction products with epoxydecane; disintegrating granulates for **detergent tablets**)
- IT Polyoxyalkylenes, uses  
Polysaccharides, uses  
Polyurethanes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(disintegrating agents; disintegrating granulates for **detergent tablets**)
- IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(hydroxyalkyl ethers; disintegrating granulates for **detergent tablets**)
- IT Silicates, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(layered, disintegrating agents; disintegrating granulates for **detergent tablets**)
- IT Glycosides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(oligo-, coco-alkyl, disintegrating agents; disintegrating granulates for **detergent tablets**)
- IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(reaction products with epoxides; disintegrating granulates for **detergent tablets**)
- IT **Detergents**  
(**tablets**; disintegrating granulates for **detergent tablets**)
- IT 79-10-7D, Acrylic acid, esters, polymers 9003-39-8, Poly(1-vinyl-2-pyrrolidinone) 9004-34-6, Cellulose, uses 9005-32-7, Alginic acid 9005-32-7D, Alginic acid, salts 25322-68-3, Polyethylene glycol 160307-12-0, Glucopon 600CSUP  
RL: TEM (Technical or engineered material use); USES (Uses)  
(disintegrating agents; disintegrating granulates for **detergent tablets**)
- IT 2404-44-6D, Octyloxirane, reaction products with polyoxyalkylene hydroxyalkyl ethers 9003-11-6D, Polyethylene-polypropylene glycol, reaction products with epoxides 25322-68-3D, Polyethylene glycol,

reaction products with epoxides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(disintegrating granulates for **detergent tablets**)

- L4 ANSWER 5 OF 16 CA COPYRIGHT 2002 ACS
- TI **Detergent tablets** with improved disintegration properties, and their manufacture
- AB The **detergent tablets** contain (A) surfactants, (B) builder(s) and (C) disintegration-promoting additives contg. polysaccharides and granulation aids, which exhibit a water soly. of .gtoreq.10 g/l at 20.degree.. The **tablets** are prepd. by **compacting** the ingredients in a **compression** -agglomeration process, in which the particles before **compacting** preferably have a particle-size distribution in the range 0.2-1.0 mm. Thus, CM-cellulose was granulated while being sprayed with Glucopon 215 CSUP to give disintegration aid granules contg. 20% glucoside, 90% of which showed particle **size** 0.2-4 mm. A 40-g **tablet** pressed from a compn. contg. coconut oil-based anionic and nonionic surfactants and a coconut oil fatty acid soap, zeolite A as builder, other conventional additives, and 10 wt.% of the disintegration aid prepd. above showed disintegration time in water at 25.degree. 28 s, compared with 150 s when untreated carboxymethyl starch was used as the disintegration aid.
- ST **detergent tablet** disintegration aid; polysaccharide disintegration aid **tablet**; granulation aid polysaccharide treatment
- IT A zeolites  
RL: MOA (Modifier or additive use); USES (Uses)  
(builder; **detergent tablets** with improved disintegration properties)
- IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coco alkyl monoether; **detergent tablets** with improved disintegration properties)
- IT Polysaccharides, uses  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)  
(disintegration aids; **detergent tablets** with improved disintegration properties)
- IT **Detergents**  
(laundry, **tablets**; **detergent tablets** with improved disintegration properties)
- IT Silicates, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(layered, builders; **detergent tablets** with improved disintegration properties)
- IT Fatty acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(palm kernel-oil, sodium salts; **detergent tablets** with improved disintegration properties)
- IT 25322-68-3D, Poly(ethylene oxide), coco alkyl monoether 295326-97-5, Sulfopon 1218G 340820-90-8, Glucopon 50G  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**detergent tablets** with improved disintegration properties)
- IT 9004-32-4, Carboxymethyl cellulose 9057-06-1, Carboxymethyl starch  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical



process); PROC (Process); USES (Uses)  
 (disintegration aid; **detergent tablets** with improved disintegration properties)

IT 57-50-1, Sucrose, uses 196004-32-7, Glucopon 215CSUP  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (granulation aid; **detergent tablets** with improved disintegration properties)

L4 ANSWER 6 OF 16 CA COPYRIGHT 2002 ACS  
 AB The title additives, which are free from **cellulose**, contain 50-99% polymers with mol. wt. .gtoreq.1000 and 50-1% solubilizer with H2O soly. >200 g/L at 20.degree. and/or substance with oil absorption capacity  
 >2 g/100 g. A **detergent tablet** contg. 5.0% 23:75 mixt. of Na2CO3 and poly(vinylpyrrolidone) (Sokalan HP 53, mol. wt. 40,000) with particle size 83% 0.2-0.8 mm had hardness 41 N and disintegration time 16 s; vs. 40 and 20, resp., without the disintegration promoter.

ST **detergent tablet** disintegration promoter; polyvinylpyrrolidone disintegration promoter **detergent tablet**; carbonate sodium disintegration promoter **detergent**; acrylic acid copolymer disintegration promoter; maleic acid copolymer disintegration promoter

IT **Detergents**  
 (tablets; granular disintegration promoters for molded **detergents**)

L4 ANSWER 7 OF 16 CA COPYRIGHT 2002 ACS  
 AB Granular additives which increase the disintegration rate of molded **detergents** contain 10-99% **cellulose** (particle size <100 .mu.m) and 90-1% powder with oil absorption capacity >20 g/100 g. A **detergent tablet** (hardness 39 N) contg. 10% cogranulate of **cellulose** fibers and zeolite (sieve no. >1.2 mm, 2%; >0.8 mm, 38%; >0.6 mm, 30%; >0.4 mm, 27%; <0.4 mm, 3%) had disintegration time in H2O at 30.degree. 9 s; vs. 16 with Arbocel TF 30HG as disintegration promoter.

ST disintegration promoter **detergent tablet**; cellulose disintegration promoter **detergent tablet**; zeolite disintegration promoter **detergent tablet**; absorbent disintegration promoter **detergent tablet**

IT **Detergents**  
 (tablets; granular disintegration promoters for molded **detergents**)

L4 ANSWER 8 OF 16 CA COPYRIGHT 2002 ACS  
 AB Laundry and dishwashing **detergent tablets** with adequate hardness, which also show sufficient disintegration and dissoln. rates that their contents can be flushed from the dosage chamber into the drum of household **washing** machines, contain 0.5-20 wt.% solubilizers having a water soly. of >200 g/L at 20.degree.; .gtoreq.30 wt.% of the solubilizer particles have a particle size <200 .mu.m; preferably, they addnl. contain 0.5-10 wt.% granular or **compacted cellulose**-based disintegrating agent. The **tablets** also contain conventional surfactants, builders, bleaches, enzymes, brighteners, antifoam agents, etc. Thus, surfactant granules contg. (C9-13-alkyl)benzenesulfonates 19.4, ethoxylated C12-18 fatty alcs. 4.8, C12-18 fatty alc. sulfates 5.2, C12-16-alkyl 1,4-glycosides 1.0, soap

brightener 0.3, Na<sub>2</sub>CO<sub>3</sub> 17.0, Na silicate 5.6, acrylic acid/maleic acid copolymer 5.6, Zeolite A 28.5, Na hydroxyethane-1,1-diphosphonate 0.8, salts, and H<sub>2</sub>O to 100 wt.% were dried at 60.degree. and sieved. A premix was prepd. contg. these granules 60.0, NH<sub>4</sub>Cl (mean particle **size** .apprx.0.2 mm) 2.0, NaBO<sub>3</sub>.H<sub>2</sub>O 17.4, EDTA 7.3, antifoam agent 3.5, polyacrylate 1.0, enzymes 1.7, perfume 0.5, Zeolite A 1.0, and **compacted cellulose** (particle size 90 wt.% >400 .mu.m) 5.5 wt.%; the premix was then **compressed** into 37.5-g **tablets** which had a hardness of 39 N and a disintegration time of 10 s.

ST **detergent tablet** disintegration time solubilizer;  
hardness **detergent tablet** solubilizer

IT Detergents  
Dissolution rate  
Hardness (mechanical)  
Particle size  
Particle size distribution  
Solubilizers

**Tablets**

(**washing** and **cleaning** agent molded article with  
finely particulate solubilizers)

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> d 1-5, 7, 8 14

L4 ANSWER 1 OF 16 CA COPYRIGHT 2002 ACS  
AN 136:71437 CA  
TI Preparation and use of products based on cellulose and insoluble acrylic  
polymers as disintegrating agents  
IN Bauer, Kurt; Kleeli, Karin  
PA Mifa Ag Frenkendorf, Switz.  
SO Eur. Pat. Appl., 12 pp.  
CODEN: EPXXDW  
DT Patent  
LA German  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1167433	A1	20020102	EP 2001-108690	20010406
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	CH 2000-1201	A	20000619		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 16 CA COPYRIGHT 2002 ACS  
AN 135:290468 CA  
TI Enzyme **tablets** for **cleaning** improvement  
IN Laustsen, Mads Aage; Johansen, Charlotte  
PA Novozymes A/s, Den.  
SO PCT Int. Appl., 32 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001074980	A2	20011011	WO 2001-DK198	20010323
	WO 2001074980	A3	20011227		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	DK 2000-548	A	20000403		
	DK 2000-1063	A	20000707		

L4 ANSWER 3 OF 16 CA COPYRIGHT 2002 ACS  
AN 135:124159 CA  
TI Manufacture of disintegration agents for **detergent**  
**tablets** with higher disintegration rates  
IN Kischkel, Ditmar; Tesmann, Holger; Weuthen, Manfred  
PA Cognis Deutschland G.m.b.H., Germany  
SO Ger. Offen., 16 pp.  
CODEN: GWXXBX  
DT Patent  
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 10002008	A1	20010726	DE 2000-10002008	20000119

L4 ANSWER 4 OF 16 CA COPYRIGHT 2002 ACS

AN 135:78627 CA

TI Disintegrating granulates for **detergent tablets**

IN Weuthen, Manfred; Kischkel, Ditmar; Elsner, Michael

PA Cognis Deutschland G.m.b.H., Germany

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001048132	A1	20010705	WO 2000-EP12808	20001215

W: JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, TR

DE 19962883 A1 20010712 DE 1999-19962883 19991224

PRAI DE 1999-19962883 A 19991224

OS MARPAT 135:78627

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 16 CA COPYRIGHT 2002 ACS

AN 135:7181 CA

TI **Detergent tablets** with improved disintegration  
properties, and their manufacture

IN Weuthen, Manfred; Fabry, Bernd; Kischkel, Ditmar

PA Cognis Deutschland G.m.b.H., Germany

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 19953027	A1	20010523	DE 1999-19953027	19991104

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 16 CA COPYRIGHT 2002 ACS

AN 133:106640 CA

TI Granular disintegration promoters for molded detergents

IN Lietzmann, Andreas; Blasey, Gerhard; Rahse, Wilfried; Semrau, Markus;  
Kruse, Hans-Friedrich

PA Henkel Kommanditgesellschaft auf Aktien, Germany

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2000042142	A1	20000720	WO 1999-EP10149	19991221

W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CN, CR, CU, CZ, DM, EE,  
 GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,  
 LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL,  
 RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,  
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,  
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,  
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19901063 A1 20000720 DE 1999-19901063 19990114  
 PRAI DE 1999-19901063 A 19990114  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 16 CA COPYRIGHT 2002 ACS  
 AN 132:336141 CA  
 TI Washing and cleaning agent molded article with finely particulate  
 solubilizers  
 IN Lietzmann, Andreas; Schmiedel, Peter; Semrau, Markus  
 PA Henkel K.-G.a.A., Germany  
 SO Ger. Offen., 22 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 19851442	A1	20000511	DE 1998-19851442	19981109

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> d 9, 14 14

L4 ANSWER 9 OF 16 CA COPYRIGHT 2002 ACS  
AN 129:246913 CA  
TI Household **detergent** or **cleaning agent tablets**  
IN Blasey, Gerhard; Jung, Dieter; Kruse, Hans-Friedrich; Schambil, Fred  
PA Henkel Kommanditgesellschaft auf Aktien, Germany  
SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9840463	A1	19980917	WO 1998-EP1203	19980304
	W: CN, CZ, HU, JP, PL, RU, SK, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	DE 19710254	A1	19980917	DE 1997-19710254	19970313
	EP 966518	A1	19991229	EP 1998-912437	19980304
	EP 966518	B1	20011024		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, FI				
	JP 2001514690	T2	20010911	JP 1998-539164	19980304
	AT 207529	E	20011115	AT 1998-912437	19980304
	ES 2166155	T3	20020401	ES 1998-912437	19980304
PRAI	DE 1997-19710254	A	19970313		
	WO 1998-EP1203	W	19980304		

L4 ANSWER 14 OF 16 CA COPYRIGHT 2002 ACS  
AN 64:45154 CA  
OREF 64:8505b-d

TI **Detergent tablets** containing auxiliaries

PA Henkel & Cie, G.m.b.H.

SO 21 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 650885		19650122	BE	
	FR 1408414			FR	
PRAI	DE		19630724		

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> d 14 14 all

L4 ANSWER 14 OF 16 CA COPYRIGHT 2002 ACS  
AN 64:45154 CA  
OREF 64:8505b-d  
TI **Detergent tablets** containing auxiliaries  
PA Henkel & Cie, G.m.b.H.  
SO 21 pp.  
DT Patent  
LA Unavailable  
CC 53 (Surface-Active Agents and Detergents)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	BE 650885		19650122	BE	
	FR 1408414			FR	
PRAI	DE		19630724		
AB	Title compns. contain [(HO)2P(O)]2C(OH)R or [(HO)2P(O)2C(OH)]2R' or their H2O-sol. salts, where R and R' contain .ltoreq.2 C atoms/P atom. The amt.				

of the additives may be from 5 to 30% of the wt. of the **tablet**. The additives are .gtoreq.70% pure. For example, one such **tablet** contained 8.4% Na tetrapropylenebenzenesulfonate, 3.3% soap, 2.6% MgSiO3, 5.8% Na2O-3.3SiO2, 1.3% **cellulose** glycolate, 0.2% optical bleach, 4.7% Na2SO4, 17.0% Na2SO3.H2O2.3H2O, 4.0% of a condensate of oleyl

alc. with 10 moles ethylene oxide (iodine no. 50), 18.5% of the tetra-Na salt of [(HO)2P(O)]2C(OH)Me (I), 30% Na4P2O7, 3.0% talc, and the remainder

H2O and by-products. The **tablets** were prepd. from a powder contg. the first 7 components and had an apparent d. of .apprx.350 g./l. with a moisture content of 5%. It passed a 3-mm. **mesh sieve**, but <5% passed a 0.1-mm. **mesh sieve**. The tetra-Na salt of crude I was neutralized with aq. Na2CO3 in a kneader. It contained 62% of the pure salt, 10% Na2CO3, 27% H2O, and the rest org. impurities. The powder was mixed with the perborate and moistened with the nonionic **detergent**. After mixing, the phosphonate, the pyrophosphate, and the talc were added. After uniform mixing, the **tablets** were pressed to a diam. of 58 mm. and a height of 18.5 mm. at 1000 kg./cm.2 The **tablets** weighed .apprx.50 g. These **tablets** dissolved in H2O at room temp. with no stirring in 3 min.

IT Cleaning compositions  
(phosphonic acid 1-hydroxyalkylidene deriv.-contg.)

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L5 89 COMPACT?(8A)CELLULOS?(P)(DENSIT? OR SIZE OR DIAMETER OR MESH  
OR  
SIEVE OR SEIVE OR MM OR CM OR MICRON# OR CENTIMETER# OR  
MILLIMET  
ER# OR INCH##) AND (LAUNDRY OR CLOTH? OR FABRIC# OR TEXTILE#  
OR  
WASHING(W) (MACHINE OR APPARATUS) OR LAUNDER?)

=> d 1-89 15 ti

L5 ANSWER 1 OF 89 USPATFULL

TI Papermaking apparatus and process for removing water from a cellulosic web

L5 ANSWER 2 OF 89 USPATFULL

TI Compacted disintegrant granulate for compression-molded articles, its production and its use

L5 ANSWER 3 OF 89 USPATFULL

TI Prewettable high softness paper product having temporary wet strength

L5 ANSWER 4 OF 89 USPATFULL

TI Absorbent composite structure formed of a substrate and cross-linkable hydrogel polymer particles

L5 ANSWER 5 OF 89 USPATFULL

TI Fibers capable of spontaneously transporting fluids

L5 ANSWER 6 OF 89 USPATFULL

TI Process for activating polysaccharides, polysaccharides produced by this process, and use thereof

L5 ANSWER 7 OF 89 USPATFULL

TI Process of making a non-continuous absorbent composite

L5 ANSWER 8 OF 89 USPATFULL

TI Process for spontaneously transporting a fluid

L5 ANSWER 9 OF 89 USPATFULL

TI Process for the production of silicate-based builder granules with increased apparent density

L5 ANSWER 10 OF 89 USPATFULL

TI Method for making carbon super capacitor electrode materials

L5 ANSWER 11 OF 89 USPATFULL

TI Compacted bentonite-based absorbents

L5 ANSWER 12 OF 89 USPATFULL

TI Process for helically crimping a fiber

L5 ANSWER 13 OF 89 USPATFULL

TI Spinnerets for making fibers capable of spontaneously transporting fluids

L5 ANSWER 14 OF 89 USPATFULL

TI Non-continuous absorbent composites comprising a porous macrostructure



of absorbent gelling particles and a substrate

- L5 ANSWER 15 OF 89 USPATFULL
- TI Compacted bentonite-based absorbents
  
- L5 ANSWER 16 OF 89 USPATFULL
- TI Absorbent products having flexible hydrophilic wick means
  
- L5 ANSWER 17 OF 89 USPATFULL
- TI Process of making fibers
  
- L5 ANSWER 18 OF 89 USPATFULL
- TI Absorbent composites comprising a porous macrostructure of absorbent gelling particles and a substrate
  
- L5 ANSWER 19 OF 89 USPATFULL
- TI Absorbent panel structure for a disposable garment
  
- L5 ANSWER 20 OF 89 USPATFULL
- TI Process of recycling of disposable diapers and the machine components thereof
  
- L5 ANSWER 21 OF 89 USPATFULL
- TI Carbon-containing odor controlling compositions
  
- L5 ANSWER 22 OF 89 USPATFULL
- TI Cardboard with high resistance to tearing and method of manufacturing same
  
- L5 ANSWER 23 OF 89 USPATFULL
- TI Method of making highly absorbent and flexible cellulosic pulp fluff sheet
  
- L5 ANSWER 24 OF 89 USPATFULL
- TI Low bulk and light-weight products
  
- L5 ANSWER 25 OF 89 USPATFULL
- TI Process of recycling of disposable diapers and the machine components thereof
  
- L5 ANSWER 26 OF 89 USPATFULL
- TI High capacity odor controlling compositions
  
- L5 ANSWER 27 OF 89 USPATFULL
- TI Absorbent brief
  
- L5 ANSWER 28 OF 89 USPATFULL
- TI Corrosion and heat-resistant ordered packing for mass transfer and heat exchange processes
  
- L5 ANSWER 29 OF 89 USPATFULL
- TI Vertical bore hole system and method for waste storage and energy recovery
  
- L5 ANSWER 30 OF 89 USPATFULL
- TI Highly absorbent and flexible cellulosic pulp fluff sheet
  
- L5 ANSWER 31 OF 89 USPATFULL

TI Foldable sponge mat for surgical applications

L5 ANSWER 32 OF 89 USPATFULL  
TI Sanitary napkin having an attachment system comprising biased hinges

L5 ANSWER 33 OF 89 USPATFULL  
TI Shaped articles containing liquefiable powders for delivery of cosmetic and other personal care agents

L5 ANSWER 34 OF 89 USPATFULL  
TI Adhesive closure system for disposable diapers

L5 ANSWER 35 OF 89 USPATFULL  
TI Disposable diaper with folded absorbent batt

L5 ANSWER 36 OF 89 USPATFULL  
TI Sanitary napkin with expandable flaps

L5 ANSWER 37 OF 89 USPATFULL  
TI Folded flange sealed sanitary napkin

L5 ANSWER 38 OF 89 USPATFULL  
TI Corrugated disposable diaper

L5 ANSWER 39 OF 89 USPATFULL  
TI Infant diaper with improved fit

L5 ANSWER 40 OF 89 USPATFULL  
TI Tubular element for reverse osmosis water purification

L5 ANSWER 41 OF 89 USPATFULL  
TI Absorbent article

L5 ANSWER 42 OF 89 USPATFULL  
TI Separation of a monosaccharide with mixed matrix membranes

L5 ANSWER 43 OF 89 USPATFULL  
TI Adult incontinent absorbent article

L5 ANSWER 44 OF 89 USPATFULL  
TI Elastic disposable diaper

L5 ANSWER 45 OF 89 USPATFULL  
TI Absorbent structure with reservoirs and a channel

L5 ANSWER 46 OF 89 USPATFULL  
TI Stable disposable absorbent structure

L5 ANSWER 47 OF 89 USPATFULL  
TI Disposable diaper with folded absorbent batt

L5 ANSWER 48 OF 89 USPATFULL  
TI Disposable diaper with improved adhesive tab system

L5 ANSWER 49 OF 89 USPATFULL  
TI Nonwoven fibrous product and method of making same

L5 ANSWER 50 OF 89 USPATFULL

TI Absorbent structure with reservoir

L5 ANSWER 51 OF 89 USPATFULL  
TI Ferrite magnet and method of producing same

L5 ANSWER 52 OF 89 USPATFULL  
TI Nonwoven fibrous product

L5 ANSWER 53 OF 89 USPATFULL  
TI Absorbent article

L5 ANSWER 54 OF 89 USPATFULL  
TI Absorbent structure containing superabsorbent

L5 ANSWER 55 OF 89 USPATFULL  
TI Absorbent structure containing superabsorbent

L5 ANSWER 56 OF 89 USPATFULL  
TI Activated sorbition paper and products produced thereby

L5 ANSWER 57 OF 89 USPATFULL  
TI Disposable diaper

L5 ANSWER 58 OF 89 USPATFULL  
TI Permeation resistant covering material

L5 ANSWER 59 OF 89 USPATFULL  
TI Disposable absorbent article of manufacture

L5 ANSWER 60 OF 89 USPATFULL  
TI Absorbent fibrous structure and disposable diaper including same

L5 ANSWER 61 OF 89 USPATFULL  
TI Methods of making sound insulation moldable carpets

L5 ANSWER 62 OF 89 USPATFULL  
TI Apparatus and method for forming fibrous structures comprising predominantly short fibers

L5 ANSWER 63 OF 89 USPATFULL  
TI Soft absorbent fibrous web and disposable diaper including same

L5 ANSWER 64 OF 89 USPATFULL  
TI Method of manufacture for a **fabric** useful in a disposable diaper

L5 ANSWER 65 OF 89 USPATFULL  
TI Method for forming fibrous structures

L5 ANSWER 66 OF 89 USPATFULL  
TI Diaper with split puff bonded facing

L5 ANSWER 67 OF 89 USPATFULL  
TI Disposable diaper having a puff bonded facing layer

L5 ANSWER 68 OF 89 USPATFULL  
TI Non-woven product

L5 ANSWER 69 OF 89 USPATFULL  
TI Method of forming a fibrous web

L5 ANSWER 70 OF 89 USPATFULL  
TI Disposable diaper

L5 ANSWER 71 OF 89 USPATFULL  
TI Disposable diaper

L5 ANSWER 72 OF 89 USPATFULL  
TI Disposable diaper having facing layer with patterned preferential flow areas

L5 ANSWER 73 OF 89 USPATFULL  
TI Process for preparing supported ribbons

L5 ANSWER 74 OF 89 USPATFULL  
TI Multilayer one-piece disposable diapers

L5 ANSWER 75 OF 89 USPATFULL  
TI Adhesively attached absorbent product

L5 ANSWER 76 OF 89 USPATFULL  
TI Disposable diaper of simple construction

L5 ANSWER 77 OF 89 USPATFULL  
TI SCRIM REINFORCED DISPOSABLE DIAPER

L5 ANSWER 78 OF 89 USPATFULL  
TI METHOD FOR FORMING A LOW BASIS WEIGHT NON-WOVEN FIBROUS WEB

L5 ANSWER 79 OF 89 USPATFULL  
TI DISPOSABLE DIAPER WITH DOUBLE CONTOURED PANEL

L5 ANSWER 80 OF 89 USPATFULL  
TI DISPOSABLE DIAPER WITH IMPROVED ADHESIVE CLOSURE SYSTEM

L5 ANSWER 81 OF 89 USPATFULL  
TI DIAPER WITH BACK-TO-BACK TRANSITION WEB FACING

L5 ANSWER 82 OF 89 USPATFULL  
TI DISPOSABLE DIAPER, **FABRIC** USEFUL THEREIN, AND METHOD OF MANUFACTURE

L5 ANSWER 83 OF 89 USPATFULL  
TI DISPOSABLE DIAPER

L5 ANSWER 84 OF 89 USPATFULL  
TI DISPOSABLE DIAPER

L5 ANSWER 85 OF 89 USPATFULL  
TI DISPOSABLE DIAPER

L5 ANSWER 86 OF 89 USPATFULL  
TI DISPOSABLE DIAPER

L5 ANSWER 87 OF 89 USPATFULL  
TI DISPOSABLE DIAPER

L5 ANSWER 88 OF 89 USPATFULL  
TI PROCESS FOR IMPROVING COMMINUTION PULP SHEETS AND RESULTING AIR-LAID  
ABSORBENT PRODUCTS

L5 ANSWER 89 OF 89 USPATFULL  
TI DISPOSABLE DIAPER OR THE LIKE AND METHOD OF MANUFACTURE

=>

L6 7 COMPACT?(8A)CELLULOS?(P)(SIZE OR DIAMETER OR MESH OR SIEVE OR  
SEIVE)(5A)(MM OR CM OR MICRON# OR CENTIMETER# OR MILLIMETER#  
OR  
INCH##) AND (LAUNDRY OR CLOTH? OR FABRIC# OR TEXTILE# OR  
WASHING  
(W)(MACHINE OR APPARATUS) OR LAUNDER?)

=> d 1-7 16 ti

L6 ANSWER 1 OF 7 USPATFULL  
TI Compacted disintegrant granulate for compression-molded articles, its  
production and its use

L6 ANSWER 2 OF 7 USPATFULL  
TI Process of recycling of disposable diapers and the machine components  
thereof

L6 ANSWER 3 OF 7 USPATFULL  
TI Carbon-containing odor controlling compositions

L6 ANSWER 4 OF 7 USPATFULL  
TI Process of recycling of disposable diapers and the machine components  
thereof

L6 ANSWER 5 OF 7 USPATFULL  
TI High capacity odor controlling compositions

L6 ANSWER 6 OF 7 USPATFULL  
TI Vertical bore hole system and method for waste storage and energy  
recovery

L6 ANSWER 7 OF 7 USPATFULL  
TI Ferrite magnet and method of producing same

=>

L7 1 COMPACT?(8A)CELLULOS?(P)(SIZE OR DIAMETER OR MESH OR SIEVE OR  
OR SEIVE)(5A)(MM OR CM OR MICRON# OR CENTIMETER# OR MILLIMETER#  
INCH##) AND (TABLET? OR PELLET? OR BAR OR BRIQUET? OR  
COMPRESS?  
OR COMPACT? OR SOLID(A)BLOCK)(P)(DETERGENT# OR DETERSIVE# OR  
TENSIDE# OR WASHING OR CLEANING)

=> d 1 17

L7 ANSWER 1 OF 1 USPATFULL  
AN 2001:179056 USPATFULL  
TI Compacted disintegrant granulate for compression-molded articles, its  
production and its use  
IN Hartan, Hans-Georg, Kevelaer, Germany, Federal Republic of  
Souren, Juergen, Stolberg, Germany, Federal Republic of  
Philippsen-Neu, Elke, Cologne, Germany, Federal Republic of  
Poeschmann, Rainer, Toenisvorst, Germany, Federal Republic of  
PA Stockhausen GmbH & Co. KG, Krefeld, Germany, Federal Republic of  
(non-U.S. corporation)  
PI US 6303560 B1 20011016  
AI US 2000-534455 20000327 (9)  
PRAI EP 1999-106370 19990329  
DT Utility  
FS GRANTED  
LN.CNT 1122  
INCL INCLM: 510/446.000  
INCLS: 510/473.000; 510/294.000; 510/298.000; 510/224.000; 510/113.000;  
510/340.000  
NCL NCLM: 510/446.000  
NCLS: 510/113.000; 510/224.000; 510/294.000; 510/298.000; 510/340.000;  
510/473.000  
IC [7]  
ICM: C11D017-00  
EXF 510/473; 510/446; 510/294; 510/298; 510/224; 510/113; 510/340

=>

=> d 1-16 19 ti

L9 ANSWER 1 OF 16 USPATFULL

TI Compacted disintegrant granulate for compression-molded articles, its production and its use

L9 ANSWER 2 OF 16 USPATFULL

TI Compacted granulate, process for making same and use as disintegrating agent for pressed detergent tablets, cleaning agent tablets for dishwashers, water softening tablets and scouring salt tablets

L9 ANSWER 3 OF 16 USPATFULL

TI Compacted granulate, process for making same and use as disintegrating agent for pressed detergent tablets, cleaning agent tablets for dishwashers, water softening tablets or scouring salt tablets

L9 ANSWER 4 OF 16 USPATFULL

TI Conductive polymers

L9 ANSWER 5 OF 16 USPATFULL

TI Tablet containing builders

L9 ANSWER 6 OF 16 USPATFULL

TI Conductive polymers

L9 ANSWER 7 OF 16 USPATFULL

TI Compounds and methods for inhibition of HIV and related viruses

L9 ANSWER 8 OF 16 USPATFULL

TI Compounds and methods for inhibition of HIV and related viruses

L9 ANSWER 9 OF 16 USPATFULL

TI Method for inhibition of HIV related viruses

L9 ANSWER 10 OF 16 USPATFULL

TI Spray apparatus and method of operation for spraying heavy viscous material

L9 ANSWER 11 OF 16 USPATFULL

TI Hollow fiber for dialysis and method for manufacture thereof

L9 ANSWER 12 OF 16 USPATFULL

TI Hormite inclusion complex with adsorbed sulphur or sulphur donor

L9 ANSWER 13 OF 16 USPATFULL

TI Elastic detergent bar of improved elevated temperature stability

L9 ANSWER 14 OF 16 USPATFULL

TI Detergent softener compositions containing a soap-cellulose ether mixture

L9 ANSWER 15 OF 16 USPATFULL

TI Regenerated cellulose sponge

L9 ANSWER 16 OF 16 USPATFULL

TI Method for extrusion coating electric wires with a foamed polyolefin resin involving reduced die-plateout



=> d 1-3, 5, 14 19

L9 ANSWER 1 OF 16 USPATFULL  
AN 2001:179056 USPATFULL  
TI Compacted disintegrant granulate for compression-molded articles, its  
production and its use  
IN Hartan, Hans-Georg, Kevelaer, Germany, Federal Republic of  
Souren, Juergen, Stolberg, Germany, Federal Republic of  
Philippsen-Neu, Elke, Cologne, Germany, Federal Republic of  
Poeschmann, Rainer, Toenisvorst, Germany, Federal Republic of  
PA Stockhausen GmbH & Co. KG, Krefeld, Germany, Federal Republic of  
(non-U.S. corporation)  
PI US 6303560 B1 20011016  
AI US 2000-534455 20000327 (9)  
PRAI EP 1999-106370 19990329  
DT Utility  
FS GRANTED  
LN.CNT 1122  
INCL INCLM: 510/446.000  
INCLS: 510/473.000; 510/294.000; 510/298.000; 510/224.000; 510/113.000;  
510/340.000  
NCL NCLM: 510/446.000  
NCLS: 510/113.000; 510/224.000; 510/294.000; 510/298.000; 510/340.000;  
510/473.000  
IC [7]  
ICM: C11D017-00  
EXF 510/473; 510/446; 510/294; 510/298; 510/224; 510/113; 510/340

L9 ANSWER 2 OF 16 USPATFULL  
AN 2001:71520 USPATFULL  
TI Compacted granulate, process for making same and use as disintegrating  
agent for pressed detergent tablets, cleaning agent tablets for  
dishwashers, water softening tablets and scouring salt tablets  
IN Casteel, Sascha, Aachen, Germany, Federal Republic of  
Hartan, Hans-Georg, Kevelaer, Germany, Federal Republic of  
Philippsen-Neu, Elke, Cologne, Germany, Federal Republic of  
Poeschmann, Rainer, Toenisvorst, Germany, Federal Republic of  
PA Stockhausen GmbH & Co. KG, Krefeld, Germany, Federal Republic of  
(non-U.S. corporation)  
PI US 6232285 B1 20010515  
AI US 1999-438657 19991112 (9)  
PRAI EP 1998-121397 19981111  
DT Utility  
FS Granted  
LN.CNT 741  
INCL INCLM: 510/446.000  
INCLS: 510/224.000; 510/229.000; 510/230.000; 510/294.000; 510/298.000;  
510/396.000; 510/473.000; 510/477.000; 510/513.000; 252/175.000  
NCL NCLM: 510/446.000  
NCLS: 252/175.000; 510/224.000; 510/229.000; 510/230.000; 510/294.000;  
510/298.000; 510/396.000; 510/473.000; 510/477.000; 510/513.000  
IC [7]  
ICM: C11D003-22  
ICS: C11D003-37; C11D011-00; C11D017-06  
EXF 510/224; 510/229; 510/230; 510/294; 510/298; 510/396; 510/446; 510/473;  
510/477; 510/513; 252/175  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 16 USPATFULL  
 AN 2001:59853 USPATFULL  
 TI Compacted granulate, process for making same and use as disintegrating agent for pressed detergent tablets, cleaning agent tablets for dishwashers, water softening tablets or scouring salt tablets  
 IN Casteel, Sascha, Aachen, Germany, Federal Republic of  
 Hartan, Hans-Georg, Kevelaer, Germany, Federal Republic of  
 Philippsen-Neu, Elke, Cologne, Germany, Federal Republic of  
 Poeschmann, Rainer, Toenischvorst, Germany, Federal Republic of  
 PA Stockhausen GmbH & Co. KG, Krefeld, Germany, Federal Republic of (non-U.S. corporation)  
 PI US 6221832 B1 20010424  
 AI US 1999-438660 19991112 (9)  
 PRAI EP 1998-121392 19981111  
 DT Utility  
 FS Granted  
 LN.CNT 870  
 INCL INCLM: 510/446.000  
 INCLS: 510/224.000; 510/229.000; 510/230.000; 510/294.000; 510/298.000; 510/396.000; 510/473.000; 510/474.000; 510/477.000; 510/513.000; 252/175.000  
 NCL NCLM: 510/446.000  
 NCLS: 252/175.000; 510/224.000; 510/229.000; 510/230.000; 510/294.000; 510/298.000; 510/396.000; 510/473.000; 510/474.000; 510/477.000; 510/513.000  
 IC [7]  
 ICM: C11D003-22  
 ICS: C11D003-37; C11D011-00; C11D017-06  
 EXF 510/224; 510/229; 510/230; 510/294; 510/298; 510/396; 510/446; 510/473; 510/474; 510/477; 510/513; 252/175  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 16 USPATFULL  
 AN 1999:53610 USPATFULL  
 TI Tablet containing builders  
 IN Seiter, Wolfgang, Neuss, Germany, Federal Republic of  
 Jung, Dieter, Hilden, Germany, Federal Republic of  
 Koch, Otto, Leichlingen, Germany, Federal Republic of  
 Stevermann, Birgit, Gelsenkirchen, Germany, Federal Republic of  
 PA Henkel Kommanditgesellschaft auf Aktien, Duesseldorf, Germany, Federal Republic of (non-U.S. corporation)  
 PI US 5900399 19990504  
 WO 9521908 19950817  
 AI US 1996-687550 19961010 (8)  
 WO 1995-EP359 19950201  
 19961010 PCT 371 date  
 19961010 PCT 102(e) date  
 PRAI DE 1994-4404279 19940210  
 DT Utility  
 FS Granted  
 LN.CNT 902  
 INCL INCLM: 510/446.000  
 INCLS: 510/294.000; 510/298.000; 510/507.000; 510/511.000; 510/531.000; 510/532.000; 510/533.000; 510/534.000; 210/687.000; 423/328.200; 423/332.000  
 NCL NCLM: 510/446.000  
 NCLS: 210/687.000; 423/328.200; 423/332.000; 510/294.000; 510/298.000;

510/507.000; 510/511.000; 510/531.000; 510/532.000; 510/533.000;  
510/534.000

IC [6]

ICM: C11D007-14

ICS: C01B033-32

EXF 510/224; 510/108; 510/534; 510/294; 510/298; 510/446; 510/507; 510/511;  
510/533; 510/531; 510/532; 210/687; 423/328.2; 423/332

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 16 USPATFULL

AN 80:53738 USPATFULL

TI Detergent softener compositions containing a soap-cellulose ether  
mixture

IN Wixon, Harold E., New Brunswick, NJ, United States

PA Colgate Palmolive Company, New York, NY, United States (U.S.  
corporation)

PI US 4230590 19801028

AI US 1978-968532 19781211 (5)

DT Utility

FS Granted

LN.CNT 962

INCL INCLM: 252/097.000

INCLS: 252/110.000; 252/117.000; 252/524.000; 252/528.000; 252/542.000;  
252/547.000

NCL NCLM: 510/308.000

NCLS: 510/324.000; 510/330.000; 510/331.000; 510/443.000; 510/444.000;  
510/471.000; 510/473.000

IC [2]

ICM: C11D001-65

ICS: C11D003-37; C11D003-22

EXF 252/117; 252/8.8; 252/528; 252/547; 252/542; 252/524; 252/110; 252/97;  
252/98

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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